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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/527,516	03/16/2000	Hirohiko Nakazato	9976-8US (OB0019US)	2106
570 7	12/03/2003		EXAMINER	
AKIN GUMP STRAUSS HAUER & FELD L.L.P. ONE COMMERCE SQUARE 2005 MARKET STREET, SUITE 2200			TRAN, DOUGLAS Q	
			ART UNIT	PAPER NUMBER
	IIA, PA 19103-7013		2624	
			DATE MAILED: 12/03/2003	3 (.

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Description			Application No.	Applicant(s)				
## Device Action Summary ## Douglas Q Tran 2524 ## The MAILING DATE of this communication appears on the cover sheet with the correspondence address ## Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the processors of 3°C FR 1.156(a). In no evert, however, may a reply be timely filed. ## The product reply specified above, the maximum clashing period will apply and will expire SIX (6) MONTHS from the mailing date of this communication for the product of the product	Office Action Summary							
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. See the circ flow of the production of the state of the cover of the period for reply specified above it less than thirty (30) stays, as reply with the statutory reintered their production of the cover of the period for reply specified shows the manimary of the period for reply specified shows the manimary and the state of the communication of the period for reply specified shows the manimary of the period for reply specified shows the manimary of the period for reply specified shows the manimary of the period for reply specified shows the manimary of the mailing date of this communication, shows the manimary of the state of this communication. 1 NO period the state of the communication of the period for the mailing date of this communication, even if timely fleet, may reduce any searced patient are adjustment. See 37 CFR 170(s). Status 1) Sees this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1 and 3-14 is/are pending in the application. 4a) Of the above claim(s) is/are visited and produce except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1,3-5 is/are rejected. 7) Claim(s) 1,3-5 is/are rejected to 2,3-2 is/are withdrawn from consideration. 5) Claim(s) 1,3-5 is/are rejected to 2,4-2 is/are withdrawn from consideration. 6) Claim(s) 1,3-5 is/are rejected to 2,4-2 is/are objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10) The d								
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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Lee (US Patent No. 6,567,175 B1) and Brown, III et al. (US Patent No. 5,960,166).

As to claim 1, Lee teaches a printing system (i.e., a computer-printer system 300 in fig. 3) comprising a computer (80 in fig. 3, col. 4, lines 57-58) and a printer (50 in fig. 3),

wherein said computer (80 in fig. 3) includes a plurality of printer drivers (i.e., 20a, 20b and 20c in fig. 3) provided for different emulations, respectively, (col. 5, lines 5-10 describes that the single printer driver "i.e., an integrated printer driver 25" including different sub-programs or different emulators such as a plurality of the printer drivers 20a, 20b and 20c are stored in the memory 20 according to the type of operating system "e.g. DOS, Windows, UNIX" and a plurality of the application programs being used by the computer 80. Therefore, each of printer drivers provides each emulation so that the printer accepts and understands for processing the type of the print data, via from one of printer drivers, which is generated from one of the application programs as well as the operation system from the computer 80),

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said computer comparing an environment of said computer (i.e., an operational state of the computer) and an environment of said printer (an operational state of the printer) to select one of said printer drivers based on a result of the comparison (col. 5, lines 18-23 describes that the control unit 10 of the computer 80 includes a printer driver calling device 215 for searching and choosing one of the printer drivers corresponding to control signals from control unit 10 generated after control unit 10 determines the operational state of the computer 80 and the operational state of the printer 50. In this case from recited claim, there is no particular elements of environments between the computer and printer are compared; that means a particular element of environment in the computer is not compared with the same particular element of environment in the printer. The comparison in recited claim would be understood that the checking of any environment in the computer and any environment in the printer how to be suitable in order for the print job is prepared by the selected printer driver. Therefore, it would be understood that an environment "or an operational state" of the computer and an environment "or an operational state" of the printer are determined as a normal operating "col. 5, lines 50-52". The normal operating would be considered as suitable operating or matching operating between the computer and the printer so that the print job is prepared for printing), and

said computer sending the image data to said printer, and wherein said printer receives the image data from said computer and processes the received image data according to one of said emulations corresponding to said selected one of said printer drivers to implement printing (col. 5, lines 49-53 describes that the computer sends the print data generated by the application program "col. 5, lines 43-45" to the printer for printing process proceeds in step 14 "in fig. 4"

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after the normal operating response from computer 80 and printer 40 is determined and one of the printer drivers is selected "col. 5, lines 18-23").

However, Lee silences to teach 1) the environments of the computer and the printer include a free memory size of the computer and printer for storing a size of the image data; 2)the selected printer driver processes the print data generated from the application so that the printer receives and processes the processed print data.

Lee teaches the integrated transmit receive interface device 200 to sense an operation state of the computer and printer (col. 5, lines 10-16), thus, the operation state of the computer and the printer could be any of conditions between the computer and the printer such as a free memory size of the computer and printer for storing a size of the image data. Therefore, the condition for the operation states between the computer and printer such as a free memory size of the computer and printer for storing a size of the image data, which would be obvious to the printing system of Lee.

Furthermore, Brown, in the same field of endeavor "i.e., printing system in fig. 1", teaches printer drivers (or any of printer drivers) from the host computer process the print data generated from the application program so that the printer processes the received print data from that printer driver (col. 2, lines 63-66 describes that the print data including page data is generated by the application program. Col. 3, lines 5-7 and 34-40 describes that many printer drivers for operation on host computers such as a host computer 11 "in fig. 1" have been produced for creating page data both in bitmap format and in a page description language "i.e., PDL" such as PCL format and PostScript format. In another case, with respect to col. 3, lines 41-44, if the printer drivers just produce the page description language "PDL", then the printer

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controller "12 in fig. 1", which locates within a printer because the printer includes the printer controller 12 and the print engine 13 in fig. 1, processes the received print job in the PDL format by converting it into bit map format data for printing).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify each of printer drivers of Lee for processing the print data from the application before transmitting to a printer as taught by Brown. The suggestion for modifying the printing system of Lee can be reasoned by one of ordinary skill in the art as set forth above by Brown because the modified printing system of Lee would increase the efficiency of the integrated printer driver in order for each printer driver converts the print data generated from one of the application programs into the page description language "PDL" format. The resultant printing systems allow the printer easily to recognize the type of the print job and know how to process the print job when it receives the print format via the printer driver.

As to claims 3-5, Lee teaches every feature in claim 1, and further teaches the integrated transmit receive interface device 200 to sense an operation state of the computer and printer and a data transmission state to printer (col. 5, lines 10-16), thus, the operation state of the computer and the printer could be any of conditions between the computer and the printer such as a free memory size of the computer and printer for storing a size of the image data, a paper feed speed of the printer, a drawing speed of the computer upon drawing the image data, or a drawing speed of the printer upon drawing the image data, an evaluation size of an intermediate metafile of the image data in the computer, and a free memory size of the printer for storing therein the image data. Therefore, the above limitations which would be the condition for the operation states between the computer and printer and which would be obvious to the printing system of Lee.

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Allowable Subject Matter

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3. Claims 6-14 are allowed.

Claim 6 is independent claim.

The following is an examiner's statement of reasons for allowance:

As to claim 6, the present invention from the application discloses the printing system comprising a computer having printer driver selecting section which compares the environments of the computer and the printer from a computer environment determining section and a printer environment determining section to select one of the printer drivers; and the printer further including an emulation judging section which judges one of the emulations corresponding to the selected one of the printer drivers. The closest prior art such as Lee (US Patent No. 6,567,175 B1) discloses a printer driver calling device for selecting one of printer drivers corresponding to control signals from control unit generated after control unit determines the operational state of computer and printer; and Brown, III et al. (US Patent No. 5,960,166) teaches that the printer receives the print data in PDL format generated by the printer driver from the computer. However, the combination of Lee and Brown, including an updated electronic text search, fails to anticipate or render the above underlined limitations obvious.

Response to Arguments

Applicant's arguments with respect to claims 1, 3-5 have been considered but are moot in view of the new ground(s) of rejection. This action is made **non-final**.

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Contact Information

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas Q. Tran whose telephone number is (703) 305-4857 or E-mail address is Douglas.tran@uspto.gov.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4700.

Douglas Q. Tran Dec. 01, 2003

GABRIEL GARCIA PRIMARY EXAMINER